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List of Patents and Publications For

Applicant's Information Disclosure

Statement

Serial No.:

10/649, 305

Applicant(s):

Edwin A. Suominen

Group:

2617

Filed:

August <u>2</u>\$, 2003

			U.S. I	PATENT DOCUMENTS			
Examiner		Document			<del></del>		
<u>Initials</u>		Number	Date	<u>Name</u>	Class	<u>Subclass</u>	§ 102(e) Date*
*provided onl	y for pal	ents issued less than	one year before	applicant's earliest claimed f	iling date.		<u> </u>
58	Α	6,073,000	06/02	Shinohara	455	310	07/96
	В	5,974,306	10/99	Hornak et al.	455	323	08/97
	C	5,950,119	09/99	McGeehan et al.	455	302	09/97
- 1	D	5,887,247	03/99	Baltus et al.	455	277.2	11/97
- 1	E	5,875,212	02/99	Fleek et al.	375	329	10/94
1	F	5,828,955	10/98	Lipowski et al.	455	324	08/95
- 1	G	5,826,180	10/98	Golan	455	302	08/94
1	H	5,815,529	09/98	Wang	375	285	04/96
- 1	I	5,811,972	09/98	Thompson et al.	324	338	03/94
- 1	J	5,809,090	09/98	Buternowsky et al.	375	347	03/96
- 1	K	5,802,463	09/98	Zuckerman	455	208	08/96
- 1	L	5,784,418	07/98	Skyes et al.	375	347	04/95
1	M	5,784,414	07/98	Bruekers et al.	375	324	09/95
-1	N	5,761,615	06/98	Jaffee	455	314	05/95
1	O	5,758,274	05/98	Vu et al.	455	246.1	03/96
	P	5,742,274	04/98	Yoshida et al.	327	113	09/95
	Q	5,734,976	03/98	Bartschi et al.	455	333	03/95
1	R	5,715,529	02/98	Kianush et al.	455	266	05/93
1	S	5,696,796	12/97	Poklemba	375	316	06/95
į.	T	5,682,099	10/97	Thompson et al.	324	338	06/95
1	U	5,640,698	06/97	Shen et al.	455	323	06/95
1	V	5,619,206	04/97	Cole, Jr. et al.	342	37	11/95
1	W	5,588,025	12/96	Strolle et al.	375	316	03/95
1	Χ	5,548,244	08/96	Clewer	329	318	11/94
1	Y	5,528,633	06/96	Halik et al.	375	326	06/94
1	Z	5,461,643	10/95	LaRosa et al.	375	329	04/93
1	AA	5,438,329	08/95	Gastouniotis et al.	340	870.02	/
1	AB	5,402,449	03/95	Schultes et al.	375	94	
1	AC	5,376,894	12/94	Petranovich	329	306	
58	AD	5,375,146	12/94	Chalmers	375	103	

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Date Considered: 4/7/06

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Applicant's Information Disclosure

Statement

Serial No.:

10/641 315

Applicant(s):

Edwin A. Suominen

Group:

2617

Filed:

August **25**, 2003

			U.S. P	ATENT DOCUMENTS			
Examiner		Document					
<u>Initials</u>		<u>Number</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	Subclass	§ 102(e) Date*
*provided only	for pate	nts issued less than	one year before a	pplicant's earliest claimed fi	ling date.		
Sig	AE	5,355,513	10/94	Clarke et al.	455	20	
ĩ	AF	5,341,107	08/94	Bijker et al.	329	337	
Į	AG	5,315,425	05/94	Van Deventer et al.	359	153	
l,	AH	5,249,203	09/93	Loper	375	97	
j	ΑI	5,230,099	07/93	Loper	455	324	
l	ΑJ	5,214,796	05/93	Gorrie et al.	455	326	
	AK	5,142,553	08/92	Rosenkranz	375	<i>7</i> 5	
	AL	5,125,008	06/92	Trawick et al.	375	349	•
1	AM	5,121,070	06/92	Tomita	329	304	
	AN	5,010,399	04/91	Goodman et al.	358	85	
	AO	5,003,621	03/91	Gailus	455	324	
1	AP	4,994,769	02/91	Kishi	332	170	
	AQ	4,992,736	02/91	Stormont et al.	324	30 <del>9</del>	
- 1	AR	4,965,853	10/90	Barnard	455	20 <del>9</del>	
	AS	4,953,182	08/90	Chung	375	97	
	ΑT	4,944,025	07/90	Gehring et al.	455	207	
	ΑŪ	4,914,408	04/90	Voorman	333	167	
	AV	4,884,265	11/89	Schroeder et al.	370	70	
Į.	AW	4,864,643	09/89	French et al.	455	302	
1	AX	4,859,960	08/89	Standford et al.	329	126	
1	AY	4,803,700	02/89	Dewey et al.	375	77	
1	ΑZ	4,737,728	04/88	Nakamura et al.	329	110	
\	BA	4,675,882	06/87	Lillie et al.	375	345	
1	BB	4,584,715	04/86	Baars et al.	455	302	
	BC	4,241,451	12/80	Maixner et al.	455	202	
	BD	3,992,616	11/76	Acker	455	318	
53	BE	3,961,262	06/76	Gassmann	325	345	

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Serial No.:

10/648,305

Applicant(s):

Edwin A. Suominen

Group:

2617

Filed:

August 25, 2003

			FOREIGN P.	ATENT DOCUMEN	<b>VTS</b>		
Examiner		Document					Translation
<u>Initials</u>		<u>Number</u>	<u>Date</u>	Country	<u>Class</u>	<u>Subclass</u>	Yes / No
53	BF	0 651 522 A1	05/95	EPO	H04B	01/26	
1	BG	0 351 156 B1	03/90	EPO	G01S	5/14	
1	BH	0 508 401 A2	04/92	EPO			
1 .	BI	0 595 277 A1	10/93	EPO			Yes
- 1	BJ	0 602 394 A2	11/93	EPO			
	BK	WO 94/10756	05/94	PCT			
do	BL	WO 94/29948	12/94	PCT			

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Date Considered: 4/3/06

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Serial No.:

10/649, 305

Applicant(s):

Edwin A. Suominen

Group:

2617

Filed:

August 25, 2003

		OTHER ART
Examiner		
<u>Initials</u>		Author, Title, Date, Pertinent Pages, Etc.
83	BM	W. Baumberger, "A Single-Chip Image Rejecting Receiver for the 2.44 CVI. B.
1		Using Commercial GaAs-MESFET-Technology," in IEEE Journal of Solid State
		<u>Circuits</u> , vol. 29, No. 10, October 1994, pp. 1244-1249
	BN	T. Okanobu et al., "An Advanced Low Power Radio 1 Chin IC" in IEEE Transactions
		on Consumer Electronics, Vol. 40, No. 4, November 1994, np. 842-851
	BO	D. Tamazaki et al., "A Complete Single Chip AM Stereo/FM Stereo Padio IC" :-
	DD.	1EEE Transactions on Consumer Electronics, Vol. 40, No. 3, August 1994, pp. 562, 560
	BP	R. van Gis et al., "2.5 Gbit/s CPFSK System with Low Central IF" in Electronics
- 1	P.O.	<u>Letters</u> , vor. 50, tvo. 14, july 1994, pp. 1153-1154
	BQ	A. Abidi, "Radio-Frequency Integrated Circuits for Portable Communications," in
	DD.	1EEE 1994 Custom Integrated Circuits Conference, May 1994, pp. 151-159
	BR	G. Jacobsen, "Low If Quadrature Optical High Sensitivity ASK Receivers" in
	BS	Electronics Letters, Vol. 30, No. 13, June 1994, pp. 1026-1028
	133	C. Demeure, "A Portable HF Transceiver with Digital IF," in Fifth International
	BT	Condetence on the Radio Systems and Techniques, July 1991, pp. 200, 204
	<i>D</i> 1	D. Ehrhardt and T. Benkner, "Digital TV Receiver with a Low IF," in IEEE
1	BU	Transactions on Consumer Electronics, Vol. 39, No. 3, August 1993, pp. 221, 220
	20	T. Okanobu, "Advanced Low Voltage Single Chip Radio IC," in IEEE Transactions
	BV	on Consumer Electronics, Vol. 38, No. 3, August 1992, pp. 465-475.
	2,	B. Henderson and J. Cook, "Image-Reject and Single-Sideband Mixers," WI Tech- Note, Vol. 12, No. 3, May/June 1985.
	BW	"Low Cost RF Modern" IRM Technical Division Divi
		"Low Cost RF Modem," <u>IBM Technical Disclosure Bulletin</u> , September 1986, pp. 1511-1513.
- 1	BX	
		J. Crols and M. Steyaert, "An Analog Integrated Polyphase Filter for a High Performance Low-IF Receiver," in <u>Proc. VLSI Circuits Symposium</u> , Kyoto, June 1995,
1		pp. 87-88.
500	BY	J. Crols and M. Steyaert, "Low-IF Topologies for High-Performance Analog Front
717		Ends of Fully Integrated Receivers, in IEEE Transactions on Circuits and Systems,
		Vol. 45, No. 3, March 1998, pp. 269-282.

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Date Considered: 4/3/06

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List of Patents and Publications For Applicant's Information Disclosure Statement Serial No.:

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Applicant(s):

Edwin A. Suominen

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Filed:

August 25, 2003

		OTHER ART
<i>5</i> 3	BZ	L. Larson (ed.), RF and Microwave Circuit Design for Wireless Communications,
25		Artech House, Boston, pp. 52-55 (excerpt from Chapter by Asad A. Abidi, UCLA).
1	CA	A. Fernandez-Duran, et al., Alcatel, "Zero-IF Receiver Architecture for Multistandard
1		Compatible Radio Systems," 46th IEEE Vehicular Technology Conference, May 1996,
- 1		рр. 1052-1056.
	CB	F. Oscarsson and A. Lindblad,; National Defence Research Establishment, Sweden,
1		"Wideband HF Receiver With Digital Quadrature Splitting," 1993, pp. 1267-1271.
1	CC	PHILIPS SEMICONDUCTORS, Specification Sheet, "Image Rejecting Front-end for
- 1	-	GSM Applications, UAA2072M."
- 1	CD	J. Paez-Borrallo and F. Casaju Quiros, "Self Calibrating Low IF Digital Image
1		Rejection Receiver For Mobile Communications" (believed presented at conference
	CE	Sept. 10, 1996).
1	CE	F. Casaju Quiros and J. Paez Borrallo; "A Low If Image Rejection Receiver For DECT,
		RACE Mobile Telecommunications Summit, Cascais, Portugal, Nov. 22-24, 1995, Vol. 1.
1	CF	
1	Cr	J. Crols, et al., "A Single-Chip 900 MHz CMOS Receiver Front-End with a High
1		Performance Low-IF Topology," <u>IEEE Journal of Solid-State Circuits</u> , Vol. 30, No. 12, December 1995, pp. 1483-1492.
1	CG	
1		J. Wuorinen, "A Fully Integrated 900MHz CMOS Double Quadrature Downconverter," 1995 IEEE International Solid-State Circuits Conference, Digest of
}		Technical Papers, Castine, ME, First Edition, February 1995, pp.137-138.
1	CH	P. Gray, et al., "Future Directions in Silicon ICs for RF Personal Communications,"
- 1		Proceeding of the IEEE 1995 Custom Integrated Circuits Conference, Berkeley, CA,
- 1		May 1-4, 1995, pp. 83-90.
- 1	CI	R. Hawley, et al., "A 300 MHz Digital Double-Sideband to single-Sideband
100		Converter in 1 pm CMOS," IEEE Journal of Solid-State Circuits, Vol. 30, No. 1,
1		January 1995.
(3	CJ	J. Min, et al., "An All-CMOS Architecture for a Low-Power Frequency-Hopped 900
18		MHz Spread Spectrum Transceiver," IEEE 1994 Custom Intergrated Circuits
		Conference, Los Angeles, CA, pp. 379-382.

Examiner:

Mount

Date Considered: \_\_\_

4/3/06

m PTO-1449 (Modified) List of Patents and Publications for Applicant's Information Disclosure Statement

Serial No.: 10/649,305

Applicant(s): Edwin A. Suominen

Group: 268T 2617

Filed: August 25, 2003

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Examiner		D		TENT DOCUMENTS			
Initials		Document Number	Date	Name	Class	Subclass	
SB	Α	3,549,811	12/70	Borresen	179	15	
	В	3,413,554	11/68	Yates et al.	325	17	
	C	3,028,487	04/62	Losee	250	8	
	D	2,725,467	11/55	Atwood	250	20	
	E	2,658,138	11/53	Samuelson	250	20	
	F	2,616,034	10/52	Alder	250	20	
	G	2,606,285	08/52	Bataille et al.	250	20	
	Н	2,588,022	03/52	Loghlin	250	20	
	I	2,557,329	06/51	Wild	178	19	
	J	2,404,354	06/46	Atkins	250	6	
	K	2,279,177	04/42	Plebanski	250	20	
	L	2,220,689	11/40	Shore	178	44	
	M	2,152,515	03/39	Wheeler	250	20	
	N	2,140,115	12/38	Roberts	250	20	
	0	2,041,040	05/36	Barden .	250	20	
	P	1,975,055	09/34	Weinerger et al.	178	6	
75	Q	1,878,614	09/32	Wheeler			
		]	Foreign F	PATENT DOCUMENTS		<del></del>	
Examiner			Pub.				
Initials		Document Number	Date	Country	Class	Subclass	Translation <sup>t</sup>
53	R	585,907	02/47	GB			>

<sup>†</sup>Left blank if in English

Examiner:

Date Considered: 4/3/06



## List of Patents and Publications for Applicant's Information Disclosure Statement

Serial No.: 10/649,305

Applicant(s): Edwin A. Suominen

Group: 2681 261 7

Filed: August 25, 2003

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Documo Numbe		Name	Class	Subclass	Filing Date*
		Rotzoll	348	725	04/95
	····	Number Date A 5,737,035 04/98			

<b>Initials</b>		Author, Title, Date, Pertinent Pages, Etc.
93	В	Kuhn, W. "Design of Integrated, Low Power, Radio Receivers in BiCMOS
		Technologies," PhD Dissertation dated "December, 1995."
	C	Van Dooremolen W., et al. "Application Note AN192: A complete FM radio on a chip,"
		Philips Semiconductors, dated "1991 Dec."
	D	Steyaert, M., et al. "RF Integrated Circuits in Standard CMOS Technologies," undated.
	E	Web Page Printout (excerpts, pp. 1, 22) "ESSCIRC '96,"
		http://www.imec.be/esscirc/papers-96/author.htm, indicating (see p. 22) Michiel
		Steyaert paper "RF Integrated Circuits in Standard CMOS Technologies" as part of
		ESSCIRC '96 proceedings.
5/3	F	Web Page Printout "ESSCIRC '96," http://www.imec.be/esscirc/papers-96/default.htm.
		indicating ESSCIRC '96 date of 17-19 September 1996.

Examiner: Date Considered: 4/3/06

List of Patents and Publications for Applicant's Information Disclosure Statement

Serial No.: 10/649,305

Applicant(s): Edwin A. Suominen

Group: 2687 2617

Filed: August 25, 2003

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		OTHER ART
Examiner Initials		Author, Title, Date, Pertinent Pages, Etc.
_\$3	A	Steyaert, M. and Crols J. "Analog Integrated Polyphase Filters," in Workshop on Advances in Analog Circuit Design (Eindhoven, Netherlands), March 29-31, 1994. Cited copy is from R.J. van de Plassche et al. (eds.), Analog Circuit Design, pp. 149-166, Copyright 1995, Kluwer Academic Publishers.

Examiner:

Date Considered: 4/3/06



List of Patents and **Publications for Applicant's** Information Disclosure Statement

Serial No.: 10/649,305

Applicant(s): Edwin A. Suominen

Group: 268+ 2617

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			U.S. PA	TENT DOCUMENTS			
Examiner	-	Document					
Initials		Number	Date	Name	Class	Subclass	
83	Α	5,838,730	11/98	Cripps	375	272	
-	В	5,832,375	11/98	Leinsten, et al.	455	314	
	С	5,722,040	02/98	Bjerede, et al.	455	76	
	D	5,661,485	08/97	Manuel	342	13	
	E	4,727,591	02/88	Manlove	455	182.2	
	F	4,580,289	04/86	Enderby	455	314	
	G	4,553,264	11/85	Hasegawa, et al.	455	189.1	
	Н	4,450,590	05/84	Lafferty, et al.	455	214	
	I	4,353,132	10/82	Saitoh, et al.	455	315	
	. ј	3,942,121	03/76	Bell, et al.	455	160.1	
\$/3	K	3,835,384	09/74	Liff	455	158.3	
			Foreign I	PATENT DOCUMENTS			-
Examiner			Pub.				
Initials		Document Number	Date	Country	Class	Subclass	Translation 1
SB	L	JP 7-283810	10/95	Japan	H04L	12/28	Y
<sup>†</sup> Left blank if i	n Engli	sh					
				OTHER ART			
Examiner			<del></del>				
Initials		Author, Title, Date, F	Pertinent F	Pages, Etc.			
	M	"National Semicond	uctor LM	X2240 Intermediate F	requency	Receiver," p	roduct
5B		brochure, 1995.					
	N	Ehrhardt, D. and Be	nkner, T.	"Digital TV Receiver	with a Lov	w IF," in <u>IE</u>	E Transactions
		on Consumer Electro	onics, Vol	. 39, No. 3; pp. 331-33	9; August	, 1993.	
	0			ivers for Mono and S		Single Chip	," in Philips
VB		Technical Review. V	'ol. 41, No	. 6, pp. 169-182; 1984	•		
Examiner		elf	M	_ Date Cons	sidered:	4/	3/06